AMENDMENT UNDER 37 C.F.R. § 1.111

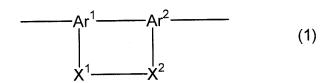
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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A polymer light emitting material which contains a polymer compound comprising a repeating unit of the following formula (1) or (2) comprising a compound exhibiting light emission from the triplet excited state in the form of a composition with a polymer compound having a repeating unit represented by the formula (1) and having a polystyrene-reduced number-average molecular weight of 10³ to 10⁸, and which exhibits light emission from the triplet excited state



[wherein Ar¹ and Ar² each independently represent a trivalent aromatic hydrocarbon group or a trivalent heterocyclic group having adjacent carbon atoms;

X¹ and X² each independently represent O, S, C(=O), S(=O), SO₂, C(R¹)(R²), Si(R³)(R⁴), N(R⁵), B(R⁶), P(R⁷) or P(=O)(R⁸), (wherein R¹, R², R³, R⁴, R⁵, R⁶, R⁷ and R⁸ each independently represent a hydrogen atom, halogen atom, alkyl group, alkyloxy group, alkylthio group, aryl group, aryloxy group, arylthio group, arylalkyl group, arylalkyloxy group, arylalkylthio group, acyl group, acyloxy group, amide group, acid imide group, imine residue, amino group, substituted amino group, substituted silyl group, substituted silyloxy group, substituted silylthio group, substituted silylamino group, monovalent heterocyclic group, heteroaryloxy group, heteroaryloxy group, arylalkenyl group, arylethynyl group, carboxyl group, alkoxycarbonyl

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group, aryloxycarbonyl group, arylalkyloxycarbonyl group, heteroaryloxycarbonyl group or cyano group;

 $(R^1 \text{ and } R^2) \text{ or } (R^3 \text{ and } R^4) \text{ may mutually be connected to form a ring); wherein } X^1 \text{ and } X^2$ are not the same-excepting the case of S or $Si(R^3)(R^4)$;

 X^1 and Ar^2 bond to adjacent carbon atoms in the aromatic ring of Ar^1 , and X^2 and Ar^1 bond to adjacent carbon atoms in the aromatic ring of Ar^2 ;

[wherein Ar³-and Ar⁴-each independently represent a trivalent aromatic hydrocarbon group or a trivalent heterocyclic group;

X³ and X⁴ each independently represent N, B, P, C(R⁰) or Si(R¹⁰), (wherein R⁰ and R¹⁰ each independently represent a hydrogen atom, halogen atom, alkyl group, alkyloxy group, alkylthio group, aryl group, aryloxy group, arylthio group, arylalkyl group, arylalkyloxy group, arylalkylthio group, acyl group, acyloxy group, amide group, acid imide group, imine residue, amino group, substituted amino group, substituted silyl group, substituted silyloxy group, substituted silylthio group, substituted silylamino group, monovalent heterocyclic group, heteroarylthio group, arylalkenyl group, arylethynyl group, carboxyl group, alkoxycarbonyl group, aryloxycarbonyl group, arylalkyloxycarbonyl group, heteroaryloxy group, represent N, B, P, C(R⁰) or Si(R¹⁰), (wherein R⁰ and R¹⁰ each independent R alkyloxy group, arylalkyloxy group, arylalkyloxy group, arylalkyloxy group, arylalkyloxycarbonyl group, heteroaryloxyl group, arylalkyloxyl group,

X³-and X⁴-are not the same; and

 X^3 and Λr^4 bond to adjacent carbon atoms in the aromatic ring of Λr^3 , and X^4 and Λr^3 bond to adjacent carbon atoms in the aromatic ring of Λr^4].

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2. (original): The polymer light emitting material according to Claim 1, wherein X^1 in the formula (1) is $C(R^1)(R^2)$, $Si(R^3)(R^4)$, $N(R^5)$, $B(R^6)$, $P(R^7)$ or $P(=O)(R^8)$ (wherein, R^1 to R^8 represent the same meaning as defined above).

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3. (previously presented): The polymer light emitting material according to Claim 1 or 2, wherein the repeating unit represented by the formula (1) defined above is a repeating unit represented by following formula (3):

[wherein Ar1 and Ar2 represent the same meaning as defined above;

R¹¹ and R¹² each independently represent a hydrogen atom, halogen atom, alkyl group, arylalkyl group or monovalent heterocyclic group; R¹¹ and R¹² may mutually be connected to form a ring; and

 X^5 represents O, S, C(=O), S(=O), SO₂, Si(R³)(R⁴), N(R⁵), B(R⁶), P(R⁷) or P(=O)(R⁸) (wherein, R³, R⁴, R⁵, R⁶, R⁷ and R⁸ represent the same meaning as defined above)].

4. (currently amended): The polymer light emitting material according to Claim 3, wherein the repeating unit represented by the formula (3) defined above is a repeating unit represented by following formula (4):

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[wherein X⁵, R¹¹ and R¹² represent the same meaning as defined above-;

R¹³, R¹⁴, R¹⁵, R¹⁶, R¹⁷ and R¹⁸ each independently represent a hydrogen atom, halogen atom, alkyl group, alkyloxy group, alkylthio group, aryl group, aryloxy group, arylthio group, arylalkyl group, arylalkyloxy group, arylalkylthio group, acyl group, acyloxy group, amide group, acid imide group, imine residue, amino group, substituted amino group, substituted silyl group, substituted silyloxy group, substituted silylthio group, substituted silylamino group, monovalent heterocyclic group, heteroaryloxy group, heteroarylthio group, arylalkenyl group, arylalkenyl group, arylalkyloxycarbonyl group, heteroaryloxycarbonyl group, aryloxycarbonyl group, arylalkyloxycarbonyl group, heteroaryloxycarbonyl group or cyano group; and

(R¹⁴ and R¹⁵) or (R¹⁶ and R¹⁷) may mutually be connected to form a ring].

- 5. (original): The polymer light emitting material according to Claim 4 wherein X^5 is an oxygen atom.
- 6. (currently amended): The polymer light emitting material according to Claim 1, further having a repeating unit represented by the following formula (5), (6), (7) or (8):

$$-Ar^{5}-$$
 (5)

$$-Ar^5-X^6-(Ar^6-X^7)_a-Ar^7-$$
 (6)

$$-Ar^5 - X^7 -$$
 (7)

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$$-X^7 - \tag{8}$$

[wherein Ar⁵, Ar⁶ and Ar⁷ each independently represent an arylene group, divalent heterocyclic group or divalent group having a metal complex structure;

$$X^6$$
 represents $-C \equiv C - , -N(R^{21}) - \text{ or } -(SiR^{22}R^{23})_{y\underline{b}} - ;$

$$X^7$$
 represents $-CR^{19}=CR^{20}-$, $-C=C-$, $-N(R^{21})-$ or $-(SiR^{22}R^{23})_{\underline{y}\underline{b}}-$;

R¹⁹ and R²⁰ each independently represent a hydrogen atom, alkyl group, aryl group, monovalent heterocyclic group, carboxyl group, alkoxycarbonyl group, aryloxycarbonyl group, arylalkyloxycarbonyl group, heteroaryloxycarbonyl group or cyano group;

R²¹, R²² and R²³ each independently represent a hydrogen atom, alkyl group, aryl group, monovalent heterocyclic group or arylalkyl group; and

a represents an integer of 0 or 1 and b represents an integer of 1 to 12].

7. (currently amended): The polymer light emitting material according to Claim 6 wherein the formula (5) is a repeating unit represented by the following formula (9), (10), (11), (12), (13) or (14):

$$\begin{array}{c}
\left(R^{24}\right)_{C} \\
-\left(R^{24}\right)_{C}
\end{array}$$
(9)

[wherein R²⁴ represents a halogen atom, alkyl group, alkyloxy group, alkylthio group, aryl group, aryloxy group, arylthio group, arylalkyl group, arylalkyloxy group, arylalkylthio group, acyl group, acyloxy group, amide group, acid imide group, imine residue, amino group, substituted amino group, substituted silyl group, substituted silyloxy group, substituted silylthio group, substituted silylamino group, monovalent heterocyclic group, heteroaryloxy group,

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heteroarylthio group, arylalkenyl group, arylethynyl group, carboxyl group, alkoxycarbonyl group, aryloxycarbonyl group, arylalkyloxycarbonyl group, heteroaryloxycarbonyl group or cyano group-;

c represents an integer of 0 to 4];

$$\begin{pmatrix}
R^{25} \\
d
\end{pmatrix}_{d}$$

$$- = -$$

$$\begin{pmatrix}
R^{26} \\
e
\end{pmatrix}_{e}$$
(10)

[wherein R²⁵ and R²⁶ each independently represent a halogen atom, alkyl group, alkyloxy group, alkylthio group, aryl group, aryloxy group, arylthio group, arylalkyl group, arylalkyloxy group, arylalkylthio group, acyl group, acyloxy group, amide group, acid imide group, imine residue, amino group, substituted amino group, substituted silyl group, substituted silyloxy group, substituted silylthio group, substituted silylamino group, monovalent heterocyclic group, heteroaryloxy group, heteroarylthio group, arylalkenyl group, arylethynyl group, carboxyl group, alkoxycarbonyl group, aryloxycarbonyl group, arylalkyloxycarbonyl group, heteroaryloxycarbonyl group or cyano group;

d and e each independently represent an integer of 0 to 3];

$$\begin{array}{c|c}
 & R^{27} \\
 & R^{28} \\
 & R^{29} \\
 & R^{30} \\
 & R^{30} \\
 & R^{30}
\end{array}$$

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[wherein R²⁷ and R³⁰ each independently represent a halogen atom, alkyl group, alkyloxy group, alkylthio group, aryl group, aryloxy group, arylthio group, arylalkyl group, arylalkyloxy group, arylalkylthio group, acyl group, acyloxy group, amide group, acid imide group, imine residue, amino group, substituted amino group, substituted silyl group, substituted silyloxy group, substituted silylthio group, substituted silylamino group, monovalent heterocyclic group, heteroaryloxy group, heteroarylthio group, arylalkenyl group, arylethynyl group, carboxyl group, alkoxycarbonyl group, aryloxycarbonyl group, arylalkyloxycarbonyl group, heteroaryloxycarbonyl group or cyano group;

R²⁸-and R²⁹-each independently represent a hydrogen atom, alkyl group, aryl group, monovalent heterocyclic group, carboxyl group, alkoxycarbonyl group, aryloxycarbonyl group, arylakyloxycarbonyl group, heteroaryloxycarbonyl group or cyano group];

$$\begin{array}{c|c}
X^8 \\
N \\
N \\
N \\
Ar^9 \\
j \\
R^{31} \\
h
\end{array}$$
(12)

[wherein R³¹ represents a halogen atom, alkyl group, alkyloxy group, alkylthio group, aryl group, aryloxy group, arylthio group, arylalkyl group, arylalkyloxy group, arylalkylthio group, acyl group, acyloxy group, amide group, acid imide group, imine residue, amino group, substituted amino group, substituted silyl group, substituted silyloxy group, substituted silylthio group, substituted silylamino group, monovalent heterocyclic group, heteroaryloxy group, heteroarylthio group, arylalkenyl group, arylethynyl group, carboxyl group, alkoxycarbonyl group, aryloxycarbonyl group, arylalkyloxycarbonyl group, heteroaryloxycarbonyl group or cyano group;

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h represents an integer of 0 to 2-;

Ar⁸ and Ar⁹ each independently represent an arylene group, divalent heterocyclic group or divalent group having a metal complex structure;

i and j each independently represent an integer of 0 or 1;

X⁸ represents O, S, SO, SO₂, Se or Te];

[wherein R³² and R³³ each independently represent a halogen atom, alkyl group, alkyloxy group, alkylthio group, aryl group, aryloxy group, arylthio group, arylalkyl group, arylalkyloxy group, arylalkylthio group, acyl group, acyloxy group, amide group, acid imide group, imine residue, amino group, substituted amino group, substituted silyl group, substituted silyloxy group, substituted silylthio group, substituted silylamino group, monovalent heterocyclic group, heteroaryloxy group, heteroarylthio group, arylalkenyl group, arylethynyl group, carboxyl group, alkoxycarbonyl group, aryloxycarbonyl group, arylalkyloxycarbonyl group,

heteroaryloxycarbonyl group or cyano group;

k and l each independently represent an integer of 0 to 4;

X⁹ represents O, S, SO, SO₂, Se, Te, N–R³⁴ or SiR³⁵R³⁶;

 X^{10} and X^{11} each independently represent N or C- R^{37} .

R³⁴, R³⁵, R³⁶ and R³⁷ each independently represent a hydrogen atom, alkyl group, arylalkyl group or monovalent heterocyclic group]; and

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[wherein R³⁸ and R⁴³ each independently represent a halogen atoms, alkyl group, alkyloxy group, alkylthio group, aryl group, aryloxy group, arylthio group, arylalkyl group, arylalkyloxy group, arylalkylthio group, acyl group, acyloxy group, amide group, acid imide group, imine residue, amino group, substituted amino group, substituted silyl group, substituted silyloxy group, substituted silylthio group, substituted silylamino group, monovalent heterocyclic group, heteroaryloxy group, heteroarylthio group, arylalkenyl group, arylethynyl group, carboxyl group, alkoxycarbonyl group, aryloxycarbonyl group, arylalkyloxycarbonyl group, heteroaryloxycarbonyl group or cyano group;

m and n each independently represent an integer of 0 to 4;

R³⁹, R⁴⁰, R⁴¹ and R⁴² each independently represent a hydrogen atom, alkyl group, aryl group, monovalent heterocyclic group, carboxyl group, alkoxycarbonyl group, arylakyloxycarbonyl group, heteroaryloxycarbonyl group or cyano group; and

 ${\rm Ar}^{10}$ represents an arylene group, divalent heterocyclic group or divalent group having a metal complex structure].

8. (previously presented): The polymer light emitting material according to Claim 6 wherein the repeating unit represented by the above defined formula (5) is a repeating unit represented by formula (15):

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[wherein Ar^{11} , Ar^{12} , Ar^{13} and Ar^{14} each independently represent an arylene group or divalent heterocyclic group;

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 Ar^{15} , Ar^{16} and Ar^{17} each independently represent an arylene group or monovalent heterocyclic group; and

o and p each independently represent an integer of 0 or 1, and $0 \le o + p \le 1$].

- 9. (currently amended): The polymer light emitting material according to Claim 1 wherein the total amount of the repeating unit represented by the formulas (1) and (2) formula (1) is 10 % by mole or more based on an amount of whole repeating units.
- 10. (currently amended): The polymer light emitting material according to Claim 1 further including at least one kind of materials selected from the group consisting of a hole transporting material, an electron transporting material and a light emitting material.
 - 11. (canceled).
 - 12. (canceled).

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13. (canceled).

14. (canceled).

15. (currently amended): The polymer light emitting material according to Claim 11Claim 1, wherein a compound or structure exhibiting light emission from the triplet excited state is a metal complex.

- 16. (currently amended): An ink composition comprising a polymer light emitting material according toof Claim 1.
- 17. (original): The ink composition according to Claim 16 having 1 to 100 mPa•s of viscosity at 25°C.
- 18. (currently amended): A light emitting thin film comprising a polymer light emitting material according toof Claim 1.
- 19. (currently amended): A conductive thin film comprising a polymer light emitting material according toof Claim 1.
- 20. (currently amended): An organic semiconductor thin film comprising a polymer light emitting material according toof Claim 1.

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21. (currently amended): A polymer light emitting device having a layer comprising a polymer light emitting material according toof Claim 1 between electrodes consisting of an anode and a cathode.

- 22. (original): The polymer light emitting device according to Claim 21, wherein the light emission layer further comprises a hole transporting material, an electron transporting material or a light-emitting material.
- 23. (currently amended): A flat light source comprising a polymer light emitting device according to any of Claims 21 to 22 of Claim 21 or Claim 22.
- 24. (currently amended): A segment display comprising a polymer light emitting device according to any of Claims 21 to 22 of Claim 21 or Claim 22.
- 25. (currently amended): A dot matrix display comprising a polymer light emitting device according to any of Claims 21 to 22 of Claim 21 or Claim 22.
- 26. (currently amended): A liquid crystal display comprising a backlight composed of a polymer light emitting device according to any of Claims 21 to 22 of Claim 21 or Claim 22.
- 27. (currently amended): An illumination comprising a polymer light emitting device according to any of Claims 21 to 22 of Claim 21 or Claim 22.